114520

Page 1

Item ID: D3391-025 Revision ID:			Accept	*N900	<u>040</u>	100) * s	etup Star	t *N	S1*
Kevision 1D: Item Name: * Aft Tube Asse	embly	***		, *			•.	Stop	*/\	S2*
Start Date: 3/7/2014	Start Qty: 1.00	*1*		Cust Item II	D:				1 /1	. 7 /
Required Date: 3/14/2014	Req'd Qty: 1.00	*1*		Customer:	•		-			
Reference:	1.	• •					er er			, who re
Approvals: Process Pla	nn:	Date!403-7	_ Tooling:	Da	te:		R	kun Star	^t *N	R1*
QC:		Date:	SPC (Y/N):	Da			•	Stop	*N	R2*
Sequence ID/	Operation Description	The second secon	Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
	ision Nbr				, o . ;	<i>Y</i>		٠	,	-
D3391 I										. 2
*100 *100*	MORI SEIKI CNC LAT	HE LARGE	0.00		e jeksi					
Mori Seiki	Memo	•	0.00					$-\varphi$	* * *	KO/
Mori Seiki CNC Lathe Large	•	Folio FA599 Rev.	△ & Dwg D3391 Rev:	· · · · · · · · · · · · · · · · · · ·						Janan
			:	·			.•	-		15/00
					٠.					
110 +4 4 0 +	QC2- Inspect parts off n	nachine FAI/FAIB	0.00		. *	÷ 3	, P.	and for		
*11 0 * ®:	Memo		0.00				 .	i - Y	·	
Quality Control								.	<u>\$</u>	- 14/03
112	QC5- Inspect part comp	leteness to step on W/O	. 0.00	526					; }	# #
110 QC Quality Control	Мето		0.00 14/3,	12						~.

Work Order ID 114520 Friday, March 07, 2014 9:20:59 AM				*114				Page 2			
Item ID: Revision ID:	D3391-025			Accept	*N900	040	100)*	Setup Sta	17	S1*
Item Name:	Aft Tube Asse	embly							Sto	p *N	S2*
Start Date:	3/7/2014	Start Qty: 1.00	*1*		Cust Item I	D:					
Required Date:	: 3/14/2014	Req'd Qty: 1.00	*1*		Customer:						
Reference:			•								
Approvals:	Process Pla	an:	Date:	Tooling:	Da	ite:	-	I	Run Sta	rt *N	R1*
QC:						ite:			Sto	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 HAAS 1		HAAS CNC VERTICAI	L MACHINING #1	0.00	14/	104/2	7		6		14 9-89
HAAS CNC vertica	il machine #1	1-Machine a 2-Deburr	as per Folio FA 599 Rev;	4.4. & Dwg D3391 Rev:	<u> </u>						
						,					
130		QC2- Inspect parts off m	achine FAI/FAIB	0.00	, 1			٠			DA
1.30		Memo		0.00	14/04/2	2Z					14 9-89

0.00

0.00

140

140

Quality Control

QC8- Inspect parts - second check

Memo

INSPECT INSIDE BORE

DAS 44 9-89 14/04/27 328

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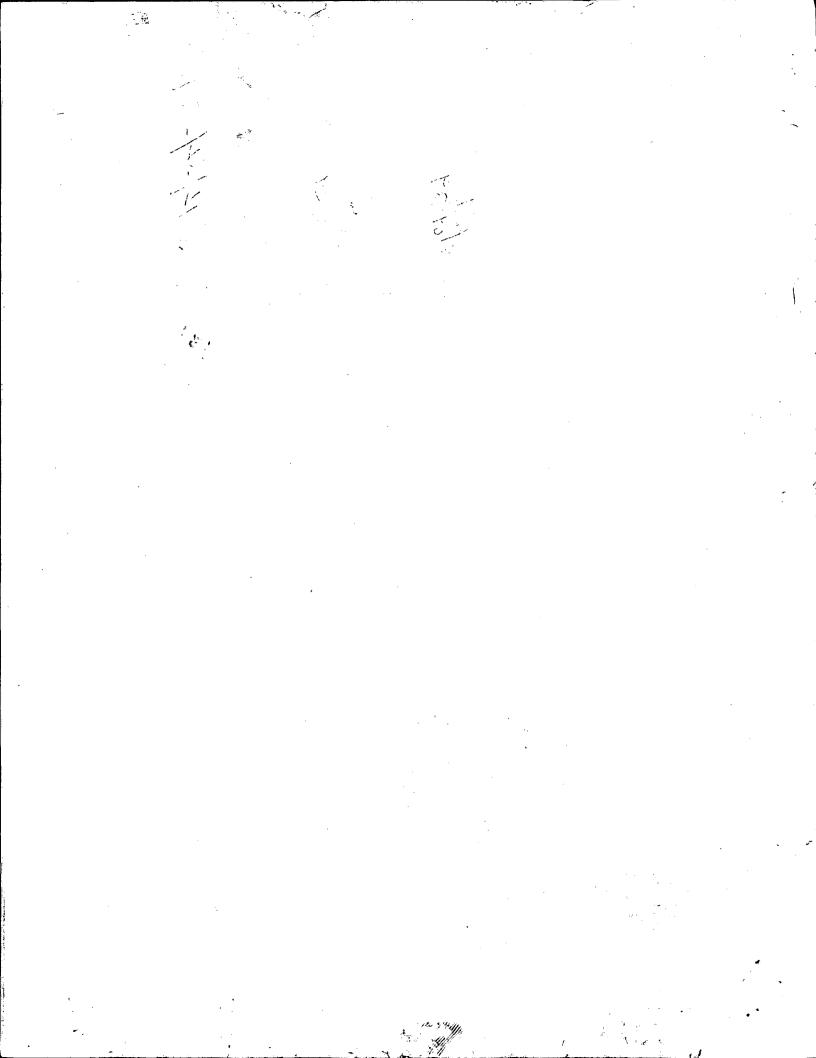
114520

Page 3

Friday, March (07, 2014_9:2	0:59 AM									
Item ID: Revision ID:	*D3391-025			Accept	*N900	040	100	7* Setup	p Start	*N	S1*
Item Name:	Aft Tube Ass	embly		V.	· · · ••*	•			Stop	*N	S2*
Start Date:	3/7/2014	Start Qty: 1.00	*1*	¥.	Cust Item I	D:					
Required Date:	3/14/2014	Req'd Qty: 1,00	*1*	•	Customer:		*				
Reference:			•	10 Mg 10 Mg 10 Mg							
Approvals:	Process Pl	an:	Date:	Tooling:	Da	ate:		Run	Start	*N	R1*
and the second	QC:		Date:	_ SPC (Y/N):	Da	ate:			Stop	*N	R2*
Sequence ID/ Work Center II		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept R Qty Q		Reject Iumber	Insp. Stamp
150		Skidtubes		0.00	•			DC 14/	14/29	7	
Skidtubes .		Memo	. •	0.00					ovja.	/	•
Skidtubes		1-Drill (PILO)	THOLE) aft cap holes	per Dwg D3391 using DT	8803		,)		
								:ii',			
160				0.00	:			·	//		
160		BENDING MACHINE - SH	KIDTUBES					DC 14/	04/29	7	
CNC Bend 1		Memo		0.00				— <i>f</i>			
CNC Delta 100 Ben	nder	Form as per Dv	vg D3391 Using Bend	Prog 3391025					~		
			r A	e	•						
170		QC5- Inspect part complete	ness to step on W/O	·0.00	12.						
170	and great the second						OAS OS	F. M.)	<i>[</i>	2 - 0
QC	r	Memo		. 0.00			9.59		14	-4.	-29
Quality Control			·							,	



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114520

Page 4

Insp.

Friday, March 07, 2014 9:20:59 AM D3391-025 Item ID: *N900040100* Setup Start **Revision ID: Item Name:** Aft Tube Assembly *1* **Start Date:** 3/7/2014 Start Qty: 1.00 **Cust Item ID: Required Date:** 3/14/2014 Req'd Qty: 1.00 **Customer:** Reference: Run Process Plan: Date:_____ **Tooling: Approvals:** Date: Stop Date:_____ SPC (Y/N): . Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description Code Qty **Run Hours** Number Stamp Oty 0.00 Skidtubes *120* Skidtubes 0.00 Memo Skidtubes 1-Open Aft cap pilot hole to .208" as per Dwg D3391 DC 14/05/13 2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only. 3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig. *****Do Not Open To Finished Size***** 4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes. 5-Open wearplate holes to 0.297" and c'bore as per dwg D3391 6-Open up all float bag holes to 0.328" and c'sink as per Dwg D3391. 7-Deburr

8- Scribe batch # on fwd end

Work Order ID 114520 Friday, March 07, 2014 9:20:59 AM			*114	520*						Page 6	
Item ID: Revision ID: Item Name:	D3391-025 Aft Tube Ass			Accept	*N900	040	100	ገ*	Setup Sta		S1*
	3/7/2014	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	Ď:				* . *IVI	S2*
Approvals:		lan:		Tooling: SPC (Y/N):		ate:]	Run Stai Sto	P	R1* R2*
Sequence ID/ Work Center I 220 *20 Skidtubes Skidtubes	D Y	A/R Magn exp. date : _	acers as per dwg D3391 abord 6398 Batch: 12 14/13/13 2hrs as per QS10015	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230	i Gaga	3- Back dril	ossbolts flush Il using #9 drill Magnabond Ideteness to step on W/O	> - De 19	1/05/15	1					
^{óc} *53U*	•	Мето	-	0.00 W/S/S	0]	*.					

0.00

Memo

Quality Control

Work	Order	ID	114520
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Quality Control

114520

Page 7

Friday, March 07, 2014 9:20:59 AM Accept Item ID: D3391-025 Setup Start *N900040100* **Revision ID:** Stop **Item Name:** Aft Tube Assembly *1* **Start Date:** 3/7/2014 **Start Qty:** 1.00 **Cust Item ID: Required Date: 3/14/2014** Req'd Qty: 1.00 *1* **Customer:** Reference: Start Run Process Plan: _____ **Approvals: Tooling:** Date: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ **Operation** Reject Set Up/ Tool ID Tool # Plan Reject Accept Insp. **Work Center ID Description Run Hours** Code Qty **Qty** Number Stamp 235 Pressure Wash per QSI005 4.3 0.00 1 A614716 *235* HandFinish 0.00 Memo AND REALODINE AS PER PAR09-043 Hand Finishing White Gloss(Ref:4.3.5.1) per OSI005.4.3-Alum 240 0.00 *240* Powdercoat 0.00 Powder Coating FINISH TIME: () 250 QC3- Inspect Part Finish 0.00 *250* 0.00 Memo

DAS 15 9-89

						· · · · · · · · · · · · · · · · · · ·							
Work Ord Friday, March (*112	4520*			-			·	Page	8
Item ID: D3391-025 Revision ID: Item Name: Aft Tube Assembly Start Date: 3/7/2014 Start Qty: 1.00				Accept	*N900	040	100) *	Setup Star		142.1		
Start Date: Required Date: Reference:		Start Qty: 1.00 Req'd Qty: 1.00	*1 *1		Cust Item 1 Customer:	ID:							
Approvals:	Process Pla	an:	Date:	Tooling:	D:	ate:	_		Run	Start	*N	R1*	
	QC:		Date:	SPC (Y/N):		ate:				Stop	*N	R2*	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp	
260		** ***		0.00	•					,	00 1	(ſ
260		HandFinishing						10			Ul	intogl	16
HandFinish Hand Finishing		2-Install Aft A/ R Sikafle Sikafle	Cap as per Dwg D33 Cap as per Dwg D3 ex-241/-291_\(\)\(\)\(\)\(\)	391 <u>2945</u> 7 <u>14(((</u>						t -			- 10
•		3- INSTALI	L WEARPLATES A	S PER DWG									
²⁷⁰ *270*		QC5- Inspect part compl	eteness to step on W	//O 0.00				1				DAS 38	1 <i>W</i> _
QC Quality Control		Memo		0.00								9-89	./9 -

280

*****280* Packaging

Identify as per dwg & Stock Location. U\to

0.00 D412-742-043/B123616

Memo

0.00

Packaging

Work Orde Friday, March 0			*114520*									Page 9
Item ID: D3391-025 Revision ID: Item Name: Aft Tube Assembly Start Date: 3/7/2014 Start Qty: 1.00				Accept	*N900	040	100)*	Setup	Start Stop	171.	S1* S2*
Start Date: Required Date: Reference:		Start Qty: 1.00 Req'd Qty: 1.00	- ·		Cust Item ID: Customer:							
Approvals:	Process Plan:QC:		Date:	Tooling: SPC (Y/N):	Date:		<u> </u>]	Run	Stop		R1* R2*
Sequence ID/ Work Center II)	Operation Description OC21- Final Inspection -	Work Order Release	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
* 200 * QC Quality Control		Мето		0.00						141	19/1 14-6	6 + C p q-11

Picklist Print

Friday, March 07, 2014 9:21:03 AM

Work Order ID: 114520

114520

D3391-025 **Parent Item:**

D3391-025

Parent Item Name: Aft Tube Assembly

Start Date: 3/7/2014

Required Date: 3/14/2014

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

ECN773 dwg rev. D EC

IPP Rev:C 06-03-28 Update Manuf. Instructions JLM

IPP rev D 07.03.20 revF dwg rev G dwg ecn 1053p EC verified by: DD

EC

IPP rev E 07.11.07 IPP Rev:F 07-11-13

ECN 1056

DD verified by: EC

IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC IPP Rev:H

11.11.14 AS PER REV.I DD verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D4095-047		Manufactured	No			260	Each	18.0000	1	1		
D4095-04 Wearpad Assembly	.7								**		IJĹ,	Modle
				Location	<u>.</u>	Loc	<u>Oty</u>	Loc Code				
				FP001			18					
					102241		2		_	٧١		•
					108289		16		_		<u>.</u>	
D4095-049		Manufactured	No			260	Each	13.0000	1	1		1 ,
D4095-04 Wearpad Assembly	.9								**		<u> </u>	11/09/10
				Location	<u>l</u>	Loc	<u>Oty</u>	Loc Code				
				FP001			12					
					109670		12		_	Χ(
				FP002	_		1		-		· <u> </u>	
					102216		1		_			
D6014-090		Manufactured	No			100	Each	74.0000	1	1	_	
D6014-09 ALUMINUM EXTRUSION)O								**			
				Location	<u>1</u>	Loc	Qty	Loc Code				

LG003 74 17 57

Kc 14-3-07

Friday, March 07, 2014 9:21:03 AM

Parent Item Name: Aft Tube Assembly

Work Order ID: 114520

114520

Parent Item:

D3391-025

D3391-025

Start Date: 3/7/2014

Required Date: 3/14/2014

Start Qty: 1.00

Required Qty: 1.00

D3670-4-200

Manufactured

230

337.0000 Each

Loc Code

Bushing

Location	<u>L</u>	oc Oty
FG		10
87709		10
LG001		327
103880		60
109108		242
96240		25
	270	Each

D2646

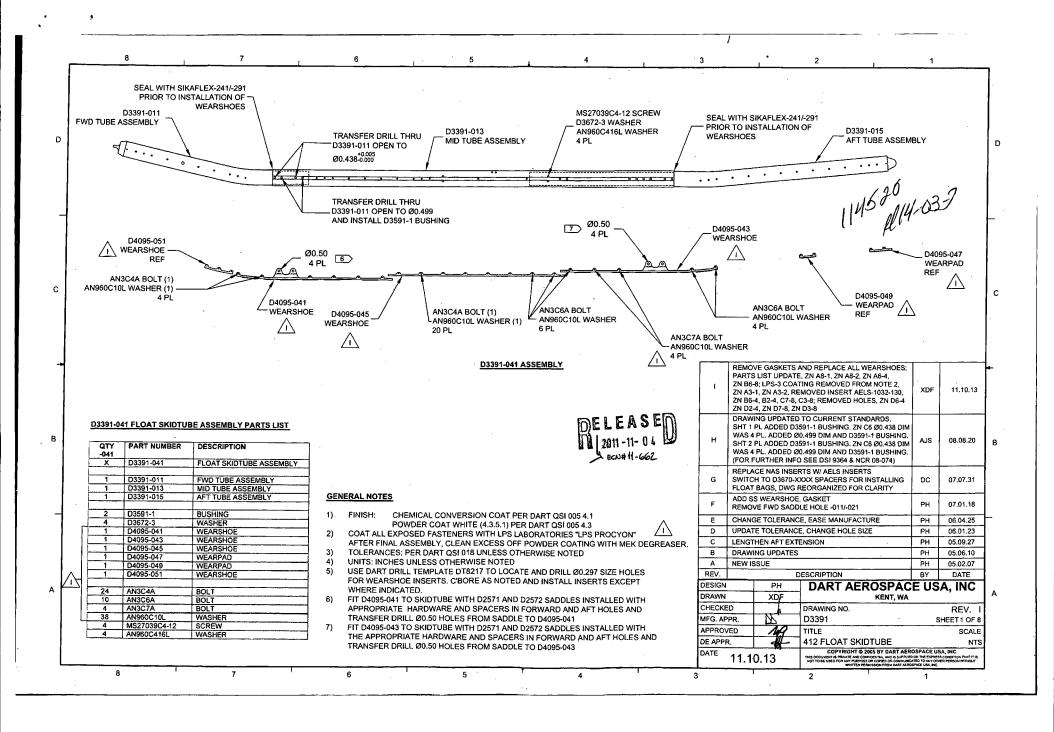
Manufactured

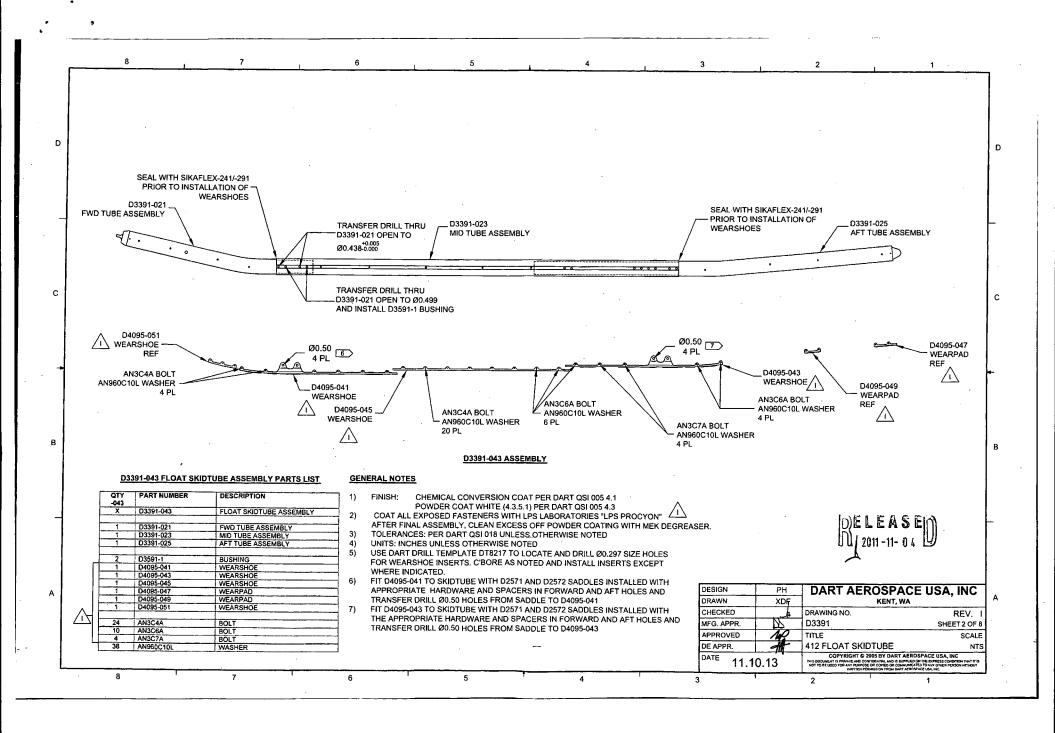
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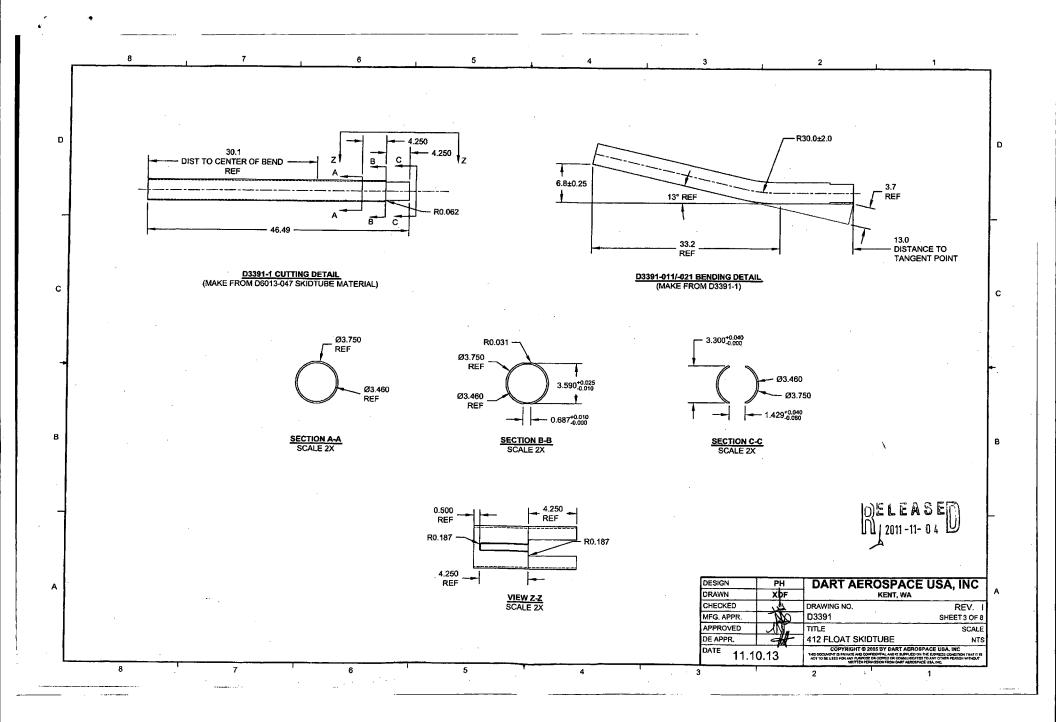
Location		Loc Oty	Loc Code	
FG		4	D 116/7/	
	85848	2	B119656	
	90495	2		
FP001		57		
	103306	18		
	107857	1		
	110816	38		

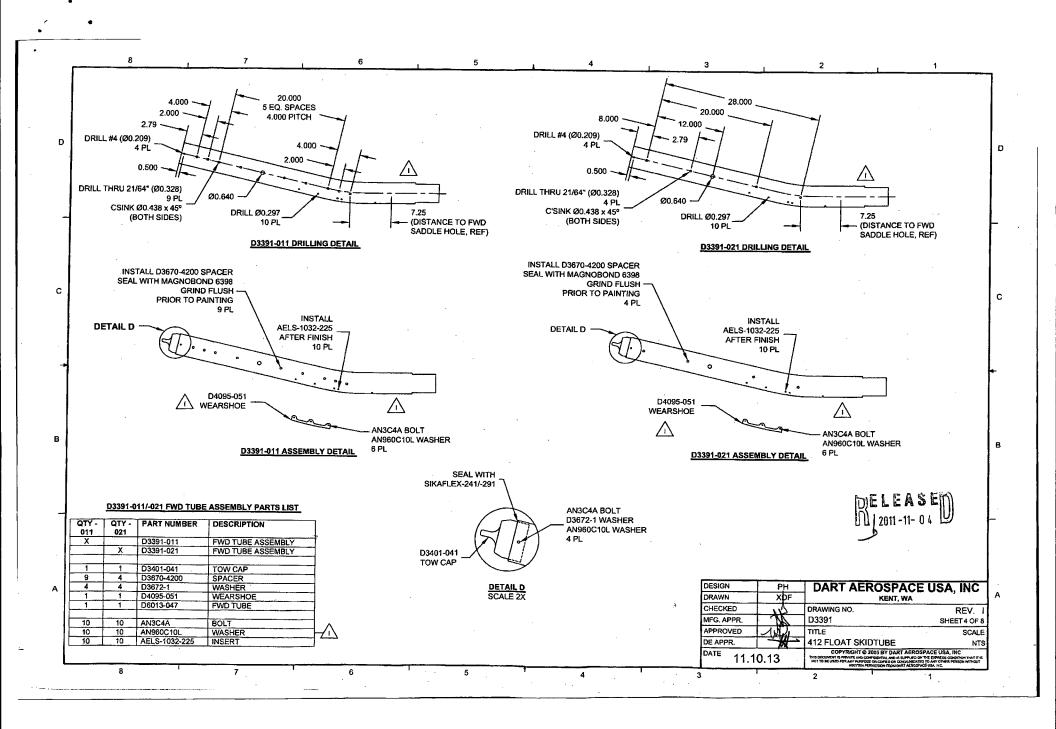
Picklist Print Friday, March 07, 2014 9:21:03 AM										Page 3
Work Order ID: 114520		*1-	1452	⊃∩*						
Parent Item: D3391-025				1-025*						
Parent Item Name: Aft Tube Assembly		``` I J	אריני	1-()/:)			Start Date: 3	/7/2014	Requi	ired Date: 3/14/2014
							Start Qty: 1			ired Qty: 1.00
D3672-1	Manufactured	No			270	Each	1,676.000 2	2	•	
D3672-1 Phenolic Washer	Manufactured				-73	254011	**		Jel	indostio
			Locatio	<u>n</u>]	Loc Oty	Loc Code			
			FG			10			<u></u>	
				85222		10				
			ST060			1666			_	
				103845 112218		4 500			_	
				113581		500		v 2	_	
				93886		450		,	_	
ALS4 1022 120 AELS4 1022 120	D 1 1	N.		99099	260	212	1 126 000 14	4.4		
*AI \$4-1032-130	Purchased	No			260	Each	1,136.000 14	14	Ill	ul ogli 6
Rivnut					_		- ~ -			
			Locatio	<u>n</u>	<u>.</u>	Loc Oty	Loc Code	V (4		
			ST279	M128179		1079 122	M1128649	<u> </u>		
				M128211		957			_	
			st510			57				
				M126109		57			_	A9
*AI \$4-1032-225 *AI \$4-1032-225*		No			270	Each	992.0000 8	8	Ul	rulo al 10
Rivnut	/*									
			Locatio	<u>n</u>]	Loc Oty	Loc Code	X &		
			FG	M127028		30 30	M158649	70	_	
			ST280	W127028		928			_	
			51200	M127028		10				
				M128179		918			_	
			st555			34				
				M127092		34			_	
Friday, March 07, 2014 9:21:03 AM				Shop Pac	ket Prin	ıt		-		Page 3

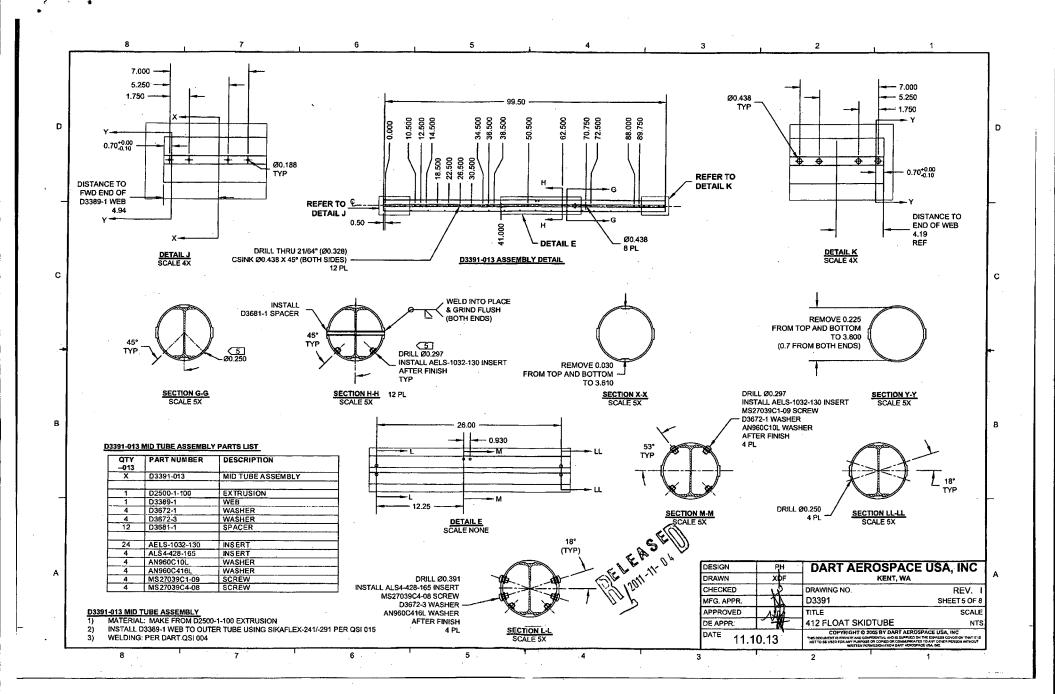
Picklist Print Friday, March 07, 2014 9:21:03 AM							, i			Page 4
Work Order ID: 114520		*1	14520	า*				· · ·		<u> </u>
Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly				-025*	-		Start Date: Start Qty:			nired Date: 3/14/2014 uired Qty: 1.00
AN3C4A	Purchased	No			270	Each	2,081.000 6	6		
AN3C4A							** 3.44		Jel	Modlo
			ST512 1 ST513 1	22814 24221 25388 M127410 M127832		20 20 3 3 2058 1835 1 222	<u>Loc Code</u> M(124520	<u>X</u> (&		
*AN3C5A *AN3C5A*	Purchased	No			270	Each	1,089.000 4	4	— Ill	rul og lic
			ST350	22800		5 5 1084	<u>Loc Code</u> }/{	X\		
NAS1149C0332R	Purchased	No	N	M128057	270	1084 Each	7,672.000 10	10		
*NAS1149C0332F							**		Ill	14/09/10
			Location			Loc Qty	Loc Code			
			GA 1	25654		1101				
			st510	25654		1101 6571				
				n126319		61				
			n	n127306		2500				
				n127410		3000			2	
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Friday, March 07, 2014 9:21:03 AM				Shop Pack	ket Prir	nt				Page 4

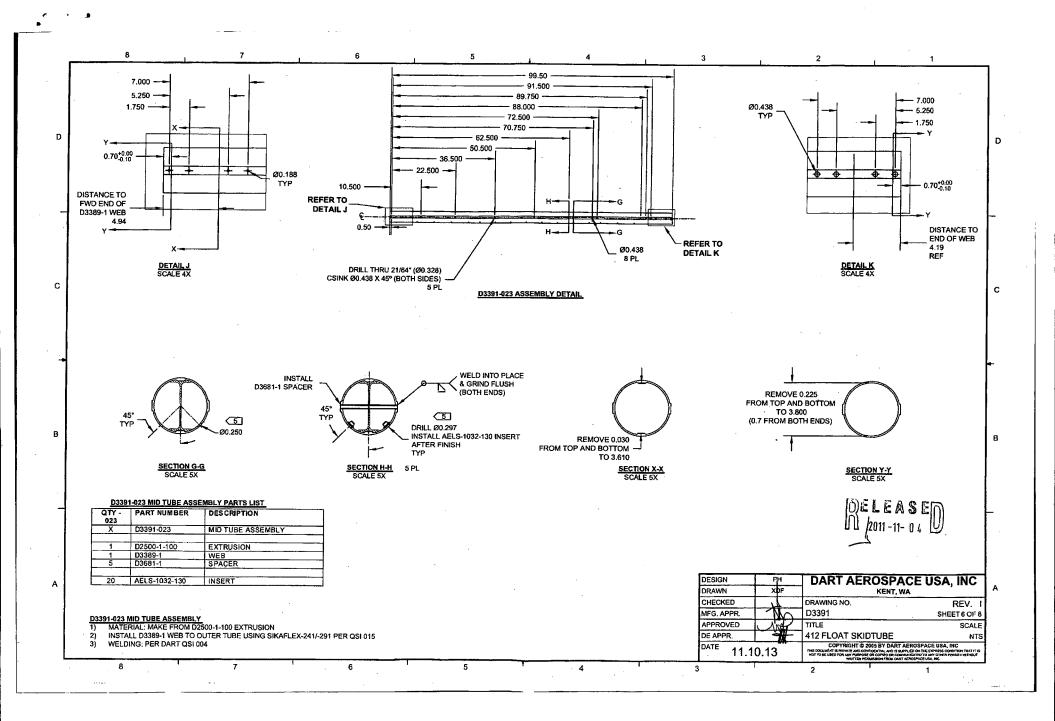


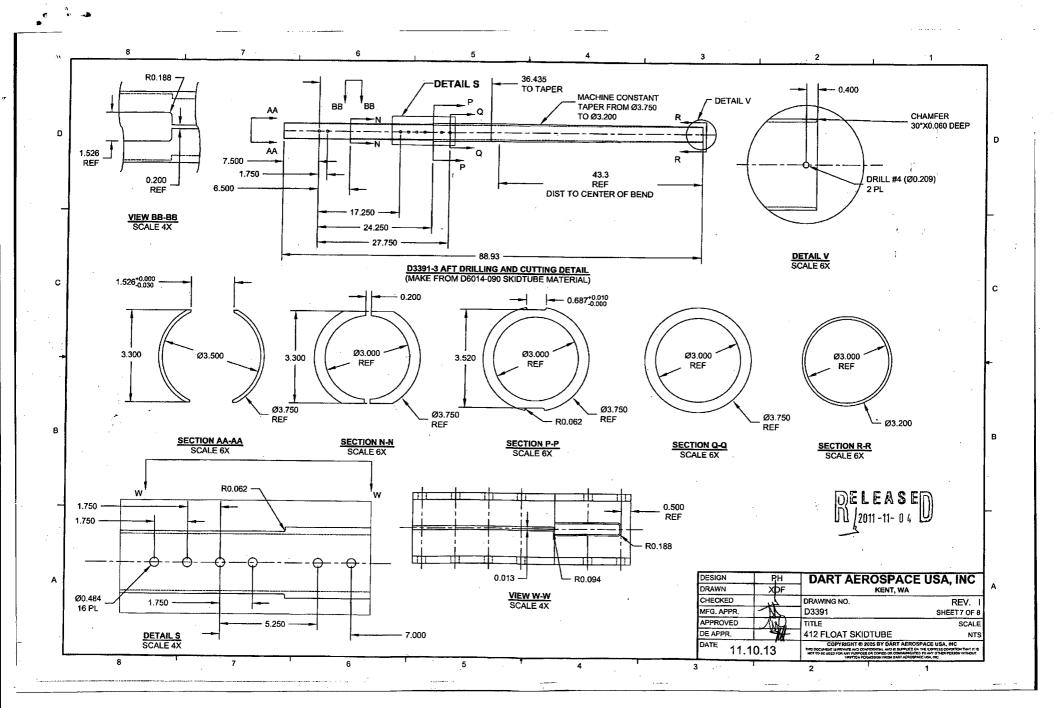


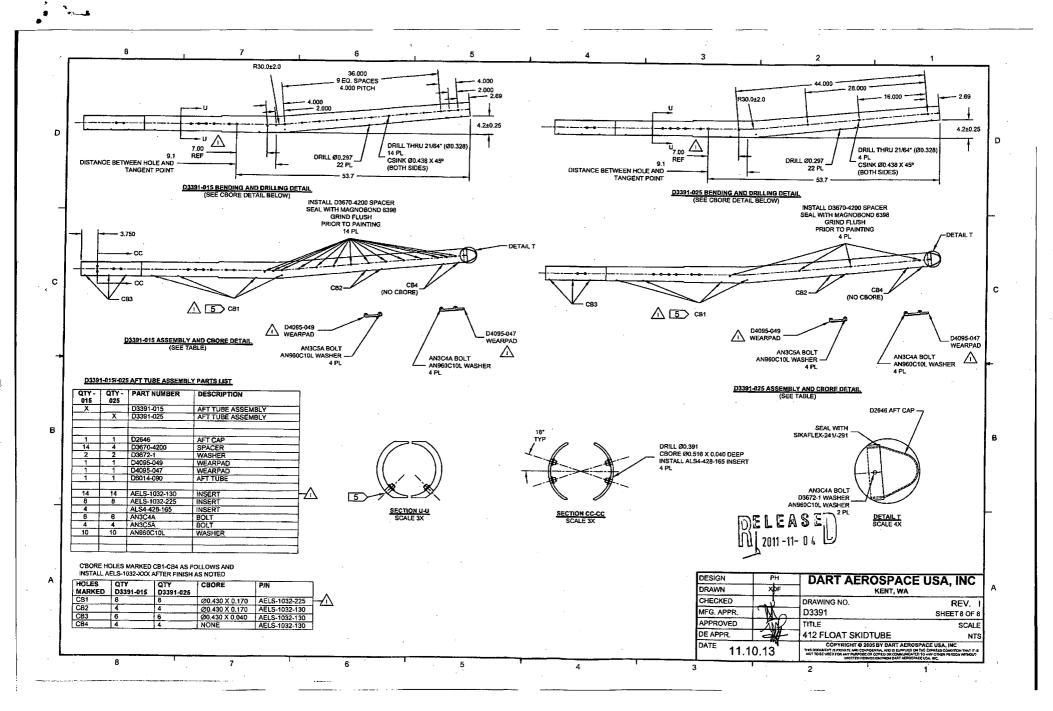


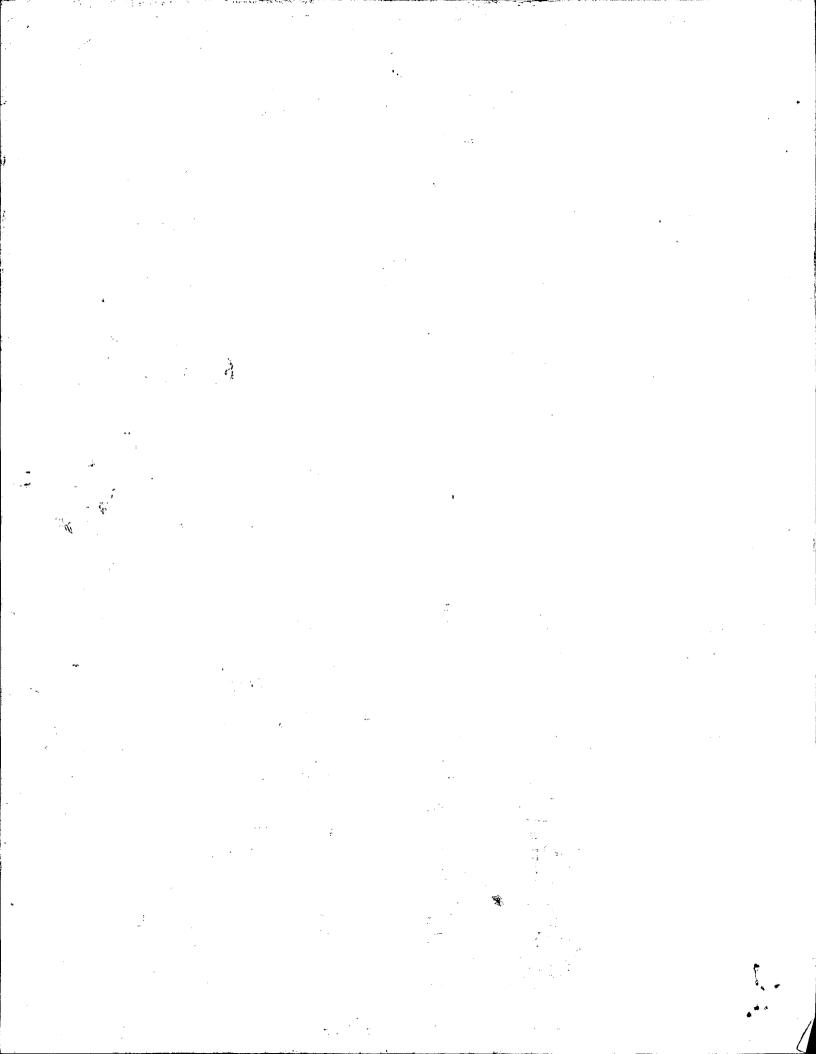












DART AEROSPACE LTD Work Order:

Description: Float Skidtube (412) Part Number: D3391-3

Inspection Dwg: D3391 Rev: I Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments				
Lathe Section										
14.000	+/-0.010	14.00		e .	tupe	LG-25				
3.500	+/-0.010	3.500			vern	CW1-08				
Ø3.200	+/-0.010	3.203			۱ ۱					
Ø3.750	+/-0.010	3.750	1		11					
30° x 0.060 chamfer	+/-0.010	30°X.060			17					
88.93	+/-0.030	88.93			tape	L6-25				

HAAS Section									
1.526	+0.000/-0.030	1.514		Vem	41-060				
7.500	+/-0.010	7.500	/	^/					
27.750	+/-0.010	2.7.750		M-tax	00 111-08				
31.750	+/-0.010	31.750		1.6					
35.250	+/-0.010	35,250		11					
3.300	+/-0.010	3.303		Ven	MLOL				
0.200	+/-0.010	.200		٧					
3.520	+/-0.010	3.523		14					
0.687	+0.010/-0.000	.690		u					
R0.062	+/-0.010	R01,2		R-G					
Ø0.484	+0.005/-0.001	8.484		Ven	7				

Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
. D	07.09.06	0.400 dimension removed	KJ/JLM	
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM	
G	09.11.16	Dimension 0.200 removed	KJ	
. H	11.06.21	Dimension 44.995 removed	KJ	
i	12.05.15	Dwg Rev updated	KJ	
J	12.05.23	Dimension updated	KJ	
K	12.10.15	88.93 dimension removed	KJ 1	<u> </u>
L	12.11.28	88.93 dimension added	KJ প	A

DQA:		Date:						ŧ		****	2	TA C
WORK ORDER NON-CONFORMANCE / UPDATE										BAEROSPAC		
QA Closed:		Date:	≯ ⁴	a spec	as I so that I so	4		*		ork Order u	odate only	
				10-1	DISPOSITION	AGAINST DEPARTMENT/PROCESS						
Work Orde	r:						24. Oak	× 1	,	-	· -	-
			خون ا√ ری ا				Crosstube		Water Jet	Engineering		
Part No			Scrap	Machining Small Fab			Prod. Eng. Coor.		Quality			
					Use-as-is	_	Thermoforming Finishing			Rec/Store/Packaging Supplier		Other
NCR N	lo				Suspected Unapproved	roved Large Fab Comp			Composite	1		
	1	· · · · · · · · · · · · · · · · · · ·		<u> </u>			<u>L</u> -			T 6: 0	12.2	
Root				Desc	ription of work order upda	٠ ا	Initial	/	Action	Sign &	faz 👟	1
Cause	Date :	Step	Qty		or non-conformance	Cr	nief Eng	.≱ De	scription 🔍 🧸 🦸	Date	Verification	QC Inspector
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Equip/Tooling	_		1 1/2				•.	1	•		The first that we	e 45 7
Handling/Pre	·				هي اي							The Control of the Co
Material	_	` .					7849					
Operator		74.5				٠	1			•		
Offset/Setup	The same of the same of		1				in the same	•	•			an of the state of
Process		1			·		**************************************		÷*			
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	· A					FA	ULT CA	TEGORY	•		and the same same	
Landin	ig Gear	ę sie			General	•	· ·					
l [Bending			Ne	Bend	• • .	Folio/	Program		Outside Dim	ensions	Pressure/Forced
l .[Centre N	ot Conce	ntric		BOM/Route	1	Grain	•		Over/Under	tolerance	Set-up
3.4 3.5	Cracks	Cracks		Broken/Damage/Defect		8,	Hardware			Part Incorrect Temperature		Temperature/Cure
~ ~ ~	Crimp/Kink/Ripple/Wave			- 1	Burrs				Inspection Incomplete/Unqualified			Weld
	Cuffs				Contamination		Instruc	structions Incomplete/Unclear		Part Lost/Missing Part Moved		Wrong Stock Pulled
	Crushing				Countersink		-	aligned/off center		Positioned Wrong		-
	Heat Treat				Cut Too Short	-	Mislabeled			Power Loss/Surge Other		lother 1
	Inspection Strip in Tube				Drawing	` <u> </u>	Misread					
.	Marks/Chatter				Drill Höles		Off-set					
- 5	Turning S				Finish	<u> </u>		Calibration	•			
(19)	Wave/Tw				Fit/Function	*		Sequence	See an agreement	-		, x,